

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/012456

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C12N5/00, A01K67/027, A61K35/14, A61P7/00, A61P35/02, C12N15/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C12N5/00, A01K67/027, A61K35/14, A61P7/00, A61P35/02, C12N15/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

BIOSIS, MEDLINE, WPIDS, JSTplus

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
T	SASAKI, K. et al., Primate Embryonic Stem Cells Differentiated In Vitro Engraft and Constitute Long-Term Hematopoiesis after Injection into Fetal Sheep. Blood. 16 November, 2003 (16.11.03), Vol.102(11), page 341a	1-6
T	MOUSTAFA, ME et al., Chimerism and Tolerance after In Utero Transplantation of ES Cells. Blood. 16 November, 2003 (16.11.03), Vol.102(16), page 399b	1-6
Y	LIECHTY, KW et al., Human mesenchymal stem cells engraft and demonstrate site-specific differentiation after in utero transplantation in sheep. Nat Med. 2000 November, Vol.6(11), pages 1282 to 1286	1-6

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
27 September, 2004 (27.09.04)Date of mailing of the international search report
12 October, 2004 (12.10.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	SROUR EF et al., Persistence of human multilineage, self-renewing lymphohematopoietic stem cells in chimeric sheep. Blood. 01 December, 1993 (01.12.93), Vol.82(11), pages 3333 to 3342	1-6
Y	ZANJANI, ED et al., Engraftment and long-term expression of human feral hemopoietic stem cells in sheep following transplantation in utero. J Clin Invest. 1992 April, Vol.89(4), pages 1178 to 1188	1-6
Y	SROUR, EF et al., Sustained human hematopoiesis in sheep transplanted in utero during early gestation with fractionated adult human bone marrow cells. Blood. 15 March, 1992 (15.03.92), Vol.79(6), pages 1404 to 1412	1-6
Y	FLAKE, AW et al., Transplantation of fetal hematopoietic stem cells in utero: the creation of hematopoietic chimeras. Science. 15 August, 1986 (15.08.86), Vol.233(4765), pages 776 to 778	1-6
Y	NAKANO, T. et al., Generation of lymphohematopoietic cells from embryonic stem cells in culture. Science. 19 August, 1994 (19.08.94), Vol.265(5175), pages 1098 to 1101	1-6
Y	LI, F. et al., Bone morphogenetic protein 4 induces efficient hematopoietic differentiation of rhesus monkey embryonic stem cells in vitro. Blood. 15 July, 2001 (15.07.01), Vol.98(2), pages 335 to 342	1-6